

## EAST Search History

| Ref # | Hits   | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|--------|---|---|------------------|---------|---------------------|
| L1    | 1      | "10577113"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2008/12/04<br>14:33 |
| L2    | 56491  | (optical or electro-optical)<br>near5 (package or<br>housing)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/04<br>14:33 |
| L3    | 6703   | ((lead near frame) or (lead-<br>frame)) same ((die near<br>pad) or (mount\$3 near<br>portion))                          | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/04<br>14:33 |
| L4    | 88939  | (resin or encapsulat\$3)<br>near5 (transparent or light-<br>transmit\$4)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/04<br>14:33 |
| L5    | 937410 | lens\$2   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/04<br>14:33 |
| L6    | 235741 | (thermal near stress) or<br>(expansion near3<br>coefficient)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/04<br>14:33 |
| L7    | 7081   | ((lead near frame) or lead-<br>frame)) same ((die near<br>pad) or (mount\$3 near<br>pad) or (mount\$3 near<br>portion)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/04<br>14:33 |
| L8    | 13     | L2 and L4 and L5 and L6<br>and L7   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/04<br>14:33 |

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| L9  | 9  | L8 and @ad<"20041013"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L10 | 31 | L2 and L7 and L4 and L5  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L11 | 24 | L10 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L12 | 2  | ("5907151").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L13 | 44 | ("4247864"   "5298742"  <br>"5350916"   "5565674").<br>PN. OR ("5907151").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |
| L14 | 43 | ("20020113244"  <br>"20030057573"  <br>"20030168670"  <br>"20030168720"  <br>"20030193080"  <br>"20030193083"  <br>"20040079957"  <br>"20040173804"  <br>"3760237"   "4152618"  <br>"4267559"   "5173839"  <br>"5785418"   "5789772"  <br>"5841177"   "5869883"  <br>"5907151"   "5959316"  <br>"5998925"   "6060729"  <br>"6238599"   "6274924"  <br>"6307272"   "6318886"  <br>"6329706"   "6335548"  <br>"6429513"   "6444498"  <br>"6456766"   "6457645"  <br>"6468821"   "6480389"  <br>"6492725"   "6501103"  <br>"6531328"   "6541800"  <br>"6559525"   "6680491"  <br>"6680568"   "6707069"  <br>"D465207"   "RE37707").<br>PN. OR ("7264378").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |
| L15 | 76 | L3 and L4 and L5   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |

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| L16 | 55    | L15 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L17 | 15    | ("2861165"   "3821775"  <br>"4698730"   "5093768"  <br>"5898267").PN. OR<br>("6552368").URPN.                            | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |
| L18 | 57    | ("4663833"   "4894707"  <br>"5079190"   "5220198").<br>PN. OR ("5523608").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |
| L19 | 8     | ("4554126"   "4697203"  <br>"5264393"   "5328552"  <br>"5424249"   "5523608"  <br>"5594282").PN. OR<br>("6172424").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |
| L20 | 15    | (masakata near kanbe).in.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |
| L21 | 14757 | (sharp near kabushiki near<br>kaisha).asn.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |
| L22 | 390   | L21 and (optical and<br>package)   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |
| L23 | 241   | L22 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L24 | 3875  | 257/98   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L25 | 462   | L24 and L6   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L26 | 338   | L25 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L27 | 10    | ("5452190"   "6345903"  <br>"6755556"   "6896381").<br>PN. OR ("7111964").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |

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| L28 | 88954  | (resin or encapsulat\$3 or (mold near compound)) near5 (transparent or light-transmit\$4) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L29 | 13     | L2 and L28 and L5 and L6 and L7   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L30 | 9      | L29 and @ad<"20041013"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L31 | 56491  | (optical or electro-optical) near5 (package or housing)                                   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L32 | 937410 | lens\$2   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L33 | 26733  | L31 and L32   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L34 | 235741 | (thermal near stress) or (expansion near3 coefficient)                                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L35 | 2145   | L33 and L34   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L36 | 90395  | (resin or encapsulat\$3 or mold or mould) near5 (transparent or light-transmit\$4)        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |

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| L37 | 228     | L33 and L34 and L36  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L38 | 136     | L37 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L39 | 2638294 | (resin or encapsulat\$3 or<br>((mold or mould) adj<br>compound) same first<br>same second) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L40 | 2638232 | (resin or encapsulat\$3 or<br>((mold or mould) adj<br>compound) with first with<br>second) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L41 | 5731    | L31 and L32 and L40  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L42 | 130     | L41 and cte  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L43 | 19071   | L33 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L44 | 81      | L42 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L45 | 459     | L41 and (coefficient near<br>thermal near expansion)                                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |

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| L46 | 312  | L45 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L47 | 3281 | 257/99   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L48 | 2    | L47 and (resin and encapsulat\$4 and "mold compound" and transparent)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L49 | 1012 | L47 and ((resin or encapsulat\$4 or "mold compound") and transparent)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L50 | 905  | L47 and ((resin or encapsulat\$4 or "mold compound") and transparent) and second   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L51 | 793  | L49 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L52 | 353  | L49 and @ad<"20041013" and lens\$2   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L53 | 12   | ("20020001192"  <br>"20020039001"  <br>"20020042156"  <br>"20020053742"  <br>"20020070449"  <br>"5670797"   "5882949"  <br>"5998232"   "6184544"  <br>"6392294").PN. OR<br>("6833566").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |
| L54 | 9    | ("20010000622"  <br>"6337536"   "6340824").<br>PN. OR ("6653661").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |

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| L55 | 5      | ("20040164311"   "20050045903"   "6576931"   "6653661"   "6943380").PN. OR ("7334907").URPN.   | US-PGPUB; USPAT; USOCR                                   | OR | OFF | 2008/12/04 14:33 |
| L56 | 19     | ("6219074"   "6274890").PN. OR ("6396082").URPN.   | US-PGPUB; USPAT; USOCR                                   | OR | OFF | 2008/12/04 14:33 |
| L57 | 321544 | "257"/("100", "432", "433", "676", "E33.056", "E33.058", "E33.059", "E33.066", "E33.067", "E33.073", "E31.127").ccls.  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/12/04 14:33 |
| L58 | 12279  | L57 and ((resin or encapsulat\$4 or "mold compound") and transparent) and second   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/12/04 14:33 |
| L59 | 657    | L58 and ((coefficient near thermal near expansion) or CTE)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/12/04 14:33 |
| L60 | 193    | L59 and @ad<"20041013" and lens\$2   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/12/04 14:33 |
| L61 | 134    | L31 and (first near (resin or encapsulantn or encapsulat\$4 or (mold near compound))) and (second near (resin or encapsulantn or encapsulat\$4 or (mold near compound))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/12/04 14:33 |
| L62 | 62     | L61 and @ad<"20041013" and lens\$2   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/12/04 14:33 |

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| L63 | 58  | ( "20010000622"  <br>"20020043926"  <br>"20020079506"  <br>"20020080501"  <br>"20020084745"  <br>"20020084748"  <br>"20020117676"  <br>"20020158578"  <br>"20020163006"  <br>"20030038291"  <br>"20030039119"  <br>"20030039120"  <br>"20030067265"  <br>"20030107046"  <br>"20030141563"  <br>"20030146690"  <br>"20040000867"  <br>"20040012027"  <br>"20040051111"  <br>"20040056256"  <br>"20040227149"  <br>"20040256630"  <br>"5526455"   "5632551"  <br>"5812717"   "5962971"  <br>"6234648"   "6294800"  <br>"6335548"   "6410940"  <br>"6429583"   "6472765"  <br>"6498355"   "6504301"  <br>"6522065"   "6538371"  <br>"6541800"   "6578986"  <br>"6600175"   "6610563"  <br>"6621211"   "6635987"  <br>"6642618"   "6657379"  <br>"6670748"   "6674233"  <br>"6683325"   "6746885"  <br>"6812503"   "6817783"  <br>"6850001"   "6871981"  <br>"7029935").PN. OR<br>("7224000").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |
| L64 | 6   | ( "20040084687"  <br>"3780357"   "6051848"  <br>"6653661"   "7078734"  <br>"7088038").PN. OR<br>("7301176").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |
| L65 | 98  | L61 and @ad< "20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L66 | 30  | ( "5414293"   "5960141"  <br>"6019523"   "6075911").<br>PN. OR ("6170996").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |
| L67 | 812 | (optical and device and<br>package).ab.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |



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| L68 | 109    | L67 and (coefficient near thermal near expansion)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L69 | 19     | ("6219074"   "6274890").<br>PN. OR ("6396082").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |
| L70 | 47     | (257/100.ccls.) and (first<br>near (resin or<br>encapsulantn or encapsulat<br>\$4 or (mold near<br>compound))) and (second<br>near (resin or<br>encapsulantn or encapsulat<br>\$4 or (mold near<br>compound))) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L71 | 10     | ("5198888"   "5495125").<br>PN. OR ("6717256").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |
| L72 | 51     | (yorishige near ishii).in.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |
| L73 | 17     | L69 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L74 | 4      | "10150986".pn.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L75 | 56491  | (optical or electro-optical)<br>near5 (package or<br>housing)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L76 | 88939  | (resin or encapsulat\$3)<br>near5 (transparent or light-<br>transmit\$4)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L77 | 937410 | lens\$2  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |

|     |       |   |   |    |     |                     |
|-----|-------|---|---|----|-----|---------------------|
| L78 | 7081  | ((lead near frame) or lead-frame)) same ((die near pad) or (mount\$3 near pad) or (mount\$3 near portion) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L79 | 31    | L75 and L78 and L76 and L77   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L80 | 31    | L79   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L81 | 24    | L79 and @ad<"20041013"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L82 | 0     | L81 and (mold near releas\$4 near agent)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L83 | 4     | L81 and (mold near releas\$4)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L84 | 5     | (mold near releas\$4 near agent) and (optical near package)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L85 | 3     | L84 and @ad<"20041013"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L86 | 14662 | (mold near releas\$4 near agent)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |

|     |       |   |   |    |     |                     |
|-----|-------|---|---|----|-----|---------------------|
| L87 | 11314 | L86 and @ad<"20041013"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L88 | 7     | L87 and ((optical near device).ab.)                             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L89 | 411   | L87 and ((resin or mold) near filler)                           | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L90 | 2     | L87 and ((resin or mold) near filler) and (optical near device) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L91 | 3204  | (double near mold resin near package).ab.                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L92 | 1463  | (double near mold resin near package).ti.                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L93 | 82    | (double near mold resin near package).ti. and Optical           | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L94 | 0     | (double near molded near package).ti. and Optical               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L95 | 56491 | (optical or electro-optical) near5 (package or housing)         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |

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| L96  | 88939  | ((resin or encapsulat\$3) near\$5 (transparent or light-transmit\$4))  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L97  | 937410 | lens\$2  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L98  | 7081   | ((lead near frame) or lead-frame)) same ((die near pad) or (mount\$3 near pad) or (mount\$3 near portion))         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L99  | 31     | L95 and L98 and L96 and L97  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L100 | 321544 | "257"/(("100", "98", "99"). ccls. and ((resin or encapsulat\$4 or "mold compound") with second)                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:33 |
| L101 | 7691   | L100 and (lead near frame or lead-frame or leadframe)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L102 | 1834   | L101 and ((expansion near\$3 coefficient) or CTE)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L103 | 137    | L102 and ((resin or encapsulant or mold or encapsulat\$3) with (transparent or light-transmit\$4 or transmissive)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L104 | 113    | L103 and @ad<"20041013"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |

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|------|------|--|---|----|-----|---------------------|
| L105 | 3    | ("6274924"   "6850001").<br>PN. OR ("7078734").URPN.           | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |
| L106 | 21   | L102 and (backlight back-<br>light)                            | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L107 | 6    | ("20040188699"  <br>"5907151"   "6396082").<br>PN.             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L108 | 19   | ("6219074"   "6274890").<br>PN. OR ("6396082").URPN.           | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/04<br>14:33 |
| L109 | 1649 | 257/79.ccls. and<br>@ad< "20041013"                            | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L110 | 4    | L109 and "I15"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L111 | 1657 | L102 and (resin or<br>encapsulant or mold or<br>encapsulat\$3) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L112 | 1489 | L111 and<br>@ad< "20041013"                                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L113 | 1834 | L102 and ((expansion<br>near3 coefficient) or CTE)             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |
| L114 | 1489 | L112 and ((expansion<br>near3 coefficient) or CTE)             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:33 |

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|------|------|--|---|----|----|---------------------|
| L115 | 221  | L101 and (((expansion near3 coefficient) or CTE) with (smaller or higher or larger))       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/04<br>14:33 |
| L116 | 195  | L115 and<br>@ad< "20041013"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/04<br>14:33 |
| L117 | 312  | L101 and (((expansion near3 coefficient) or CTE) with (smaller or higher or larger lower)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/04<br>14:33 |
| L118 | 282  | L117 and<br>@ad< "20041013"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/04<br>14:33 |
| L119 | 2    | "2002118270"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/04<br>14:33 |
| L120 | 17   | "1032351"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/04<br>14:33 |
| L121 | 2475 | CTE with glass   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/04<br>14:33 |
| L122 | 1549 | L121 and<br>@ad< "20041013"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/04<br>14:33 |
| L123 | 631  | (epoxy with CTE) and<br>@ad< "20041013"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/04<br>14:33 |

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|------|--------|--|---|----|-----|---------------------|
| L124 | 0      | ((optical adj device) and (lead near frame) and wire and (first near resin) and (second near resin) and (coefficient near expansion)).clm. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/04<br>14:48 |
| L125 | 321544 | "257"/("678" or "680").<br>ccls. and (resin or encapsulat\$4 or "mold compound" or encapsulant)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:54 |
| L126 | 321544 | "257"/("678" or "680").<br>ccls. and (resin or encapsulat\$4 or "mold compound" or encapsulant or mold)                                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:55 |
| L127 | 1189   | l126 and ((CTE or CLE or (coefficient near expansion)) with (higher lower))  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:57 |
| L129 | 818    | L127 and<br>@ad< "20041013"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>14:58 |
| L130 | 125    | l129 and (leadframe lead-frame lead near frame)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/04<br>15:00 |
| S4   | 1      | "10577113"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/12<br>11:45 |
| S8   | 52674  | (optical or electro-optical)<br>near5 (package or housing)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/16<br>17:32 |
| S9   | 6354   | ((lead near frame) or (lead-frame)) same ((die near pad) or (mount\$3 near portion))   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/16<br>17:34 |

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|-----|--------|--|---|----|----|---------------------|
| S10 | 83688  | (resin or encapsulat\$3)<br>near5 (transparent or light-<br>transmit\$4)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/16<br>17:39 |
| S11 | 885317 | lens\$2  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/16<br>17:40 |
| S12 | 224290 | (thermal near stress) or<br>(expansion near3<br>coefficient)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/16<br>17:41 |
| S14 | 6712   | ((lead near frame) or lead-<br>frame)) same ((die near<br>pad) or (mount\$3 near<br>pad) or (mount\$3 near<br>portion) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/16<br>17:45 |
| S15 | 12     | S8 and S10 and S11 and<br>S12 and S14  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/16<br>17:46 |
| S16 | 8      | S15 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/16<br>17:51 |
| S17 | 30     | S8 and S14 and S10 and<br>S11  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/16<br>17:54 |
| S18 | 23     | S17 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/16<br>17:54 |
| S19 | 2      | ("5907151").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/16<br>18:03 |



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| S20 | 41    | ("4247864"   "5298742"   "5350916"   "5565674").<br>PN. OR ("5907151").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/16<br>18:04 |
| S21 | 42    | ("20020113244"   "20030057573"   "20030168670"   "20030168720"   "20030193080"   "20030193083"   "20040079957"   "20040173804"   "3760237"   "4152618"   "4267559"   "5173839"   "5785418"   "5789772"   "5841177"   "5869883"   "5907151"   "5959316"   "5998925"   "6060729"   "6238599"   "6274924"   "6307272"   "6318886"   "6329706"   "6335548"   "6429513"   "6444498"   "6456766"   "6457645"   "6468821"   "6480389"   "6492725"   "6501103"   "6531328"   "6541800"   "6559525"   "6680491"   "6680568"   "6707069"   "D465207"   "RE37707").<br>PN. OR ("7264378").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/16<br>18:04 |
| S22 | 71    | S9 and S10 and S11   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/16<br>18:21 |
| S23 | 54    | S22 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/16<br>18:21 |
| S24 | 15    | ("2861165"   "3821775"   "4698730"   "5093768"   "5898267").PN. OR ("6552368").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/16<br>18:29 |
| S25 | 54    | ("4663833"   "4894707"   "5079190"   "5220198").<br>PN. OR ("5523608").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/16<br>18:38 |
| S26 | 8     | ("4554126"   "4697203"   "5264393"   "5328552"   "5424249"   "5523608"   "5594282").PN. OR ("6172424").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/16<br>18:47 |
| S27 | 15    | (masakata near kanbe).in.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/16<br>19:16 |
| S28 | 13964 | (sharp near kabushiki near kaisha).asn.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/16<br>19:18 |

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|-----|-------|---|---|----|-----|---------------------|
| S29 | 344   | S28 and (optical and package)   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/16<br>19:19 |
| S30 | 236   | S29 and @ad<"20041013"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/16<br>19:21 |
| S31 | 3159  | 257/98  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/16<br>19:48 |
| S32 | 381   | S31 and S12   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/16<br>19:48 |
| S33 | 324   | S32 and @ad<"20041013"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/16<br>19:49 |
| S34 | 7     | ("5452190"   "6345903"  <br>"6755556"   "6896381").<br>PN. OR ("7111964").URPN.                     | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/16<br>19:55 |
| S35 | 83703 | (resin or encapsulat\$3 or<br>(mold near compound))<br>near5 (transparent or light-<br>transmit\$4) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/16<br>20:02 |
| S36 | 12    | S8 and S35 and S11 and<br>S12 and S14   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/16<br>20:03 |
| S37 | 8     | S36 and @ad<"20041013"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/16<br>20:03 |
| S44 | 52746 | (optical or electro-optical)<br>near5 (package or<br>housing)                                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/17<br>15:43 |

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| S45 | 886558  | lens\$2  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/17<br>15:43 |
| S46 | 24797   | S44 and S45  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>15:43 |
| S47 | 224423  | (thermal near stress) or<br>(expansion near3<br>coefficient)                                 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/17<br>15:46 |
| S48 | 1942    | S46 and S47  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>15:46 |
| S49 | 85150   | (resin or encapsulat\$3 or<br>mold or mould) near5<br>(transparent or light-<br>transmit\$4) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>15:47 |
| S50 | 196     | S46 and S47 and S49  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>15:47 |
| S51 | 130     | S50 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>15:48 |
| S52 | 2527107 | (resin or encapsulat\$3 or<br>((mold or mould) adj<br>compound) same first<br>same second)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>15:59 |
| S53 | 2527048 | (resin or encapsulat\$3 or<br>((mold or mould) adj<br>compound) with first with<br>second)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>16:00 |

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| S55 | 5202  | S44 and S45 and S53  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>16:02 |
| S56 | 113   | S55 and cte  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>16:03 |
| S58 | 18871 | S46 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>16:05 |
| S59 | 79    | S56 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>16:06 |
| S60 | 410   | S55 and (coefficient near<br>thermal near expansion)                           | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>16:13 |
| S61 | 308   | S60 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>16:13 |
| S62 | 2766  | 257/99   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>16:20 |
| S63 | 2     | S62 and (resin and<br>encapsulat\$4 and "mold<br>compound" and<br>transparent) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>16:22 |
| S64 | 865   | S62 and ((resin or<br>encapsulat\$4 or "mold<br>compound") and<br>transparent) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>16:23 |

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|-----|--------|--|---|----|-----|---------------------|
| S65 | 771    | S62 and ((resin or encapsulat\$4 or "mold compound") and transparent) and second   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>16:23 |
| S66 | 765    | S64 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>16:24 |
| S67 | 343    | S64 and @ad<"20041013" and lens\$2   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>16:26 |
| S68 | 11     | ("20020001192"  <br>"20020039001"  <br>"20020042156"  <br>"20020053742"  <br>"20020070449"  <br>"5670797"   "5882949"  <br>"5998232"   "6184544"  <br>"6392294").PN. OR<br>("6833566").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/17<br>16:42 |
| S69 | 7      | ("20010000622"  <br>"6337536"   "6340824").<br>PN. OR ("6653661").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/17<br>16:45 |
| S70 | 5      | ("20040164311"  <br>"20050045903"  <br>"6576931"   "6653661"  <br>"6943380").PN. OR<br>("7334907").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/17<br>16:48 |
| S71 | 19     | ("6219074"   "6274890").<br>PN. OR ("6396082").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/17<br>17:04 |
| S72 | 305908 | "257"/("100", "432",<br>"433", "676", "E33.056",<br>"E33.058", "E33.059",<br>"E33.066", "E33.067",<br>"E33.073", "E31.127").ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>17:23 |
| S73 | 11249  | S72 and ((resin or encapsulat\$4 or "mold compound") and transparent) and second   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>17:23 |

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| S74 | 585 | S73 and ((coefficient near thermal near expansion) or CTE)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>17:24 |
| S75 | 181 | S74 and @ad<"20041013" and lens\$2  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>17:25 |
| S76 | 123 | S44 and (first near (resin or encapsulantn or encapsulat\$4 or (mold near compound))) and (second near (resin or encapsulantn or encapsulat\$4 or (mold near compound)))  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>17:59 |
| S77 | 62  | S76 and @ad<"20041013" and lens\$2  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>18:00 |
| S78 | 53  | (<br>"20010000622"  <br>"20020043926"  <br>"20020079506"  <br>"20020080501"  <br>"20020084745"  <br>"20020084748"  <br>"20020117676"  <br>"20020158578"  <br>"20020163006"  <br>"20030038291"  <br>"20030039119"  <br>"20030039120"  <br>"20030067265"  <br>"20030107046"  <br>"20030141563"  <br>"20030146690"  <br>"20040000867"  <br>"20040012027"  <br>"20040051111"  <br>"20040056256"  <br>"20040227149"  <br>"20040256630"  <br>"5526455"   "5632551"  <br>"5812717"   "5962971"  <br>"6234648"   "6294800"  <br>"6335548"   "6410940"  <br>"6429583"   "6472765"  <br>"6498355"   "6504301"  <br>"6522065"   "6538371"  <br>"6541800"   "6578986"  <br>"6600175"   "6610563"  <br>) | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/17<br>18:02 |

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|-----|-----|--|---|----|-----|---------------------|
|     |     | "6621211"   "6635987"  <br>"6642618"   "6657379"  <br>"6670748"   "6674233"  <br>"6683325"   "6746885"  <br>"6812503"   "6817783"  <br>"6850001"   "6871981"  <br>"7029935").PN. OR<br>("7224000").URPN.       |   |    |     |                     |
| S79 | 6   | ("20040084687"  <br>"3780357"   "6051848"  <br>"6653661"   "7078734"  <br>"7088038").PN. OR<br>("7301176").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/17<br>18:10 |
| S80 | 97  | S76 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>18:12 |
| S81 | 29  | ("5414293"   "5960141"  <br>"6019523"   "6075911").<br>PN. OR ("6170996").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/17<br>18:17 |
| S82 | 771 | (optical and device and<br>package).ab.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/17<br>18:19 |
| S83 | 105 | S82 and (coefficient near<br>thermal near expansion)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>18:19 |
| S84 | 19  | ("6219074"   "6274890").<br>PN. OR ("6396082").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/17<br>19:17 |
| S85 | 44  | (257/100.ccls.) and (first<br>near (resin or<br>encapsulantn or encapsulat<br>\$4 or (mold near<br>compound))) and (second<br>near (resin or<br>encapsulantn or encapsulat<br>\$4 or (mold near<br>compound))) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>19:19 |
| S86 | 10  | ("5198888"   "5495125").<br>PN. OR ("6717256").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/17<br>19:24 |
| S87 | 50  | (yorishige near ishii).in.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/03/17<br>19:27 |
| S88 | 17  | S84 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>19:28 |

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|-----|--------|--|---|----|-----|---------------------|
| S89 | 4      | "10150986".pn.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/17<br>19:38 |
| S90 | 52783  | (optical or electro-optical)<br>near5 (package or<br>housing)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/18<br>10:53 |
| S91 | 83840  | (resin or encapsulat\$3)<br>near5 (transparent or light-<br>transmit\$4)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/18<br>10:53 |
| S92 | 886874 | lens\$2  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/18<br>10:53 |
| S93 | 6725   | ((lead near frame) or lead-<br>frame)) same ((die near<br>pad) or (mount\$3 near<br>pad) or (mount\$3 near<br>portion) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/18<br>10:53 |
| S94 | 30     | S90 and S93 and S91 and<br>S92   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/03/18<br>10:53 |
| S95 | 30     | S94  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/18<br>10:53 |
| S96 | 23     | S94 and @ad<"20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/18<br>11:01 |
| S97 | 0      | S96 and (mold near releas<br>\$4 near agent)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/18<br>11:02 |



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| S98  | 4     | S96 and (mold near releas\$4)                                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/18<br>11:02 |
| S101 | 5     | (mold near releas\$4 near agent) and (optical near package)      | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/18<br>11:07 |
| S104 | 3     | S101 and @ad< "20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/18<br>11:08 |
| S105 | 13801 | (mold near releas\$4 near agent)                                 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/18<br>11:10 |
| S106 | 11259 | S105 and @ad< "20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/18<br>11:10 |
| S107 | 7     | S106 and ((optical near device).ab.)                             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/18<br>11:11 |
| S110 | 405   | S106 and ((resin or mold) near filler)                           | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/18<br>11:32 |
| S111 | 1     | S106 and ((resin or mold) near filler) and (optical near device) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/18<br>11:33 |
| S112 | 3203  | (double near mold resin near package).ab.                        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/11/24<br>14:16 |

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|------|--------|---|---|----|-----|---------------------|
| S113 | 1463   | (double near mold resin near package).ti.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/11/24<br>14:16 |
| S114 | 82     | (double near mold resin near package).ti. and Optical   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/11/24<br>14:17 |
| S115 | 0      | (double near molded near package).ti. and Optical   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/11/24<br>14:23 |
| S116 | 56315  | (optical or electro-optical) near5 (package or housing)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/11/24<br>14:24 |
| S117 | 88722  | (resin or encapsulat\$3) near5 (transparent or light-transmit\$4)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/11/24<br>14:24 |
| S118 | 935426 | lens\$2   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/11/24<br>14:24 |
| S119 | 7070   | ((lead near frame) or lead-frame)) same ((die near pad) or (mount\$3 near pad) or (mount\$3 near portion) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/11/24<br>14:24 |
| S120 | 30     | S116 and S119 and S117 and S118   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/11/24<br>14:24 |
| S121 | 321124 | "257"/(("100", "98", "99"). ccls. and ((resin or encapsulat\$4 or "mold compound") with second)           | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/01<br>16:33 |

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| S122 | 7673 | S121 and (lead near frame or lead-frame or leadframe)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/01<br>16:34 |
| S123 | 1829 | S122 and ((expansion near3 coefficient) or CTE)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/01<br>16:39 |
| S124 | 137  | S123 and ((resin or encapsulant or mold or encapsulat\$3) with (transparent or light-transmit\$4 or transmissive)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/01<br>16:43 |
| S125 | 113  | S124 and @ad< "20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/01<br>16:43 |
| S126 | 3    | ("6274924"   "6850001"). PN. OR ("7078734").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/01<br>17:37 |
| S127 | 21   | S123 and (backlight back-light)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/01<br>18:05 |
| S128 | 6    | ("20040188699"   "5907151"   "6396082"). PN.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/01<br>18:41 |
| S129 | 19   | ("6219074"   "6274890"). PN. OR ("6396082").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/01<br>18:51 |
| S130 | 1649 | 257/79.ccls. and @ad< "20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/01<br>19:01 |
| S131 | 4    | S130 and "I15"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/01<br>19:01 |

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|------|------|--|---|----|----|---------------------|
| S132 | 1652 | S123 and (resin or encapsulant or mold or encapsulat\$3)                                   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/01<br>19:04 |
| S133 | 1488 | S132 and @ad< "20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/01<br>19:04 |
| S134 | 1829 | S123 and ((expansion near3 coefficient) or CTE)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/01<br>19:04 |
| S135 | 1488 | S133 and ((expansion near3 coefficient) or CTE)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/01<br>19:05 |
| S136 | 220  | S122 and (((expansion near3 coefficient) or CTE) with (smaller or higher or larger))       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/01<br>19:06 |
| S137 | 195  | S136 and @ad< "20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/01<br>19:07 |
| S138 | 311  | S122 and (((expansion near3 coefficient) or CTE) with (smaller or higher or larger lower)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/01<br>19:08 |
| S139 | 282  | S138 and @ad< "20041013"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/01<br>19:09 |
| S140 | 2    | "2002118270"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/01<br>19:49 |

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| S141 | 17   | "1032351"                               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/01<br>20:35 |
| S142 | 2466 | CTE with glass                          | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/01<br>20:48 |
| S143 | 1549 | S142 and<br>@ad< "20041013"             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/01<br>20:48 |
| S144 | 631  | (epoxy with CTE) and<br>@ad< "20041013" | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/01<br>21:43 |

12/ 4/ 2008 3:17:16 PM

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